#### State of California AIR RESOURCES BOARD

### EXECUTIVE ORDER A-4-161

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

## NAVISTAR INTERNATIONAL TRANSPORTATION CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following Navistar International Transportation Corporation 1994 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GYWR) over 8,500 pounds:

Fuel Type: Diesel

| Engine Family          | Liters | (Cubic Inches) | Exhaust Emission Control Systems and Special Features                                       |
|------------------------|--------|----------------|---|
| RNV444C8DABA<br>(T444) | 7.3    | (444)          | Turbocharger<br>Oxidation Catalytic Converter<br>Charge Air Cooler<br>Engine Control Module |

Engine models and codes are listed on attachments.

The following are the certification emission standards for this engine family in grams per brake horsepower-hour:

| Hydrocarbons | Carbon<br><u>Monoxide</u> | Nitrogen<br><u>Oxides</u> | <u>Particulates</u> |
|--------------|---------------------------|---------------------------|---------------------|
| 1.3          | 15.5                      | 5.0                       | 0.10                |

The following are the certification emission values for this engine family in grams per brake horsepower-hour:

| Engine<br>Family | Hydrocarbons | Carbon<br><u>Monoxide</u> | Nitrogen<br><u>Oxides</u> | <u>Particulates</u> |
|------------------|--------------|---------------------------|---------------------------|---------------------|
| RNV444C8DABA     | 0.4          | 2.6                       | 4.7                       | 0.08                |

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

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Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this  $\frac{972}{}$  day of February, 1994.

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

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# 1994 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

Manufacturer Navistar International Transportation Corp. Engine Family RNV444C8DABA

Liter (CID) 7.3 (444 ) Fuel Type Diesel(.04%S) Engine Config. V-8

Exhaust ECS & Special Features(ECM/PCM, PTOX, IFI, etc.) EM DI TC OC CAC

(Use abbreviations per SAE J1930 May91)

| Engine Model<br>(Eng. Code) | Rated HP<br>@ RPM                      | Fuel Rate<br>@ Rated HP<br>mm^3 /stroke<br>(lbs/hr) | Fuel Pump<br>& Injector<br>P/N                         | ECM/PCM<br>P/N   | Part. Trap/<br>Catalyst<br>P/N     |
|-----------------------------|--|---|--|--|------------------------------------|
| A190C<br>A175C<br>A160C     | 190 @ 2600<br>175 @ 2600<br>160 @ 2600 | 68.9<br>(80.0)<br>62.9<br>(73.0)<br>58.0<br>(67.4)  | The follow models with  Injectors 1816187C2, 1816187C3 | ing are common to hin the engine fare 1807246C1 / \*1807297C1 \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | Catalysts 1823375C1 (Oval-in-shell |
|                             |  |   |  |  |                                    |

Revisions: \*3/18/94

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Manufacturer Navistar International Transportation Corp. Engine Family RNV444C8DABA

Liter (CID) 7.3 (444 ) Fuel Type Diesel(.04%S) Engine Config. V-8

Exhaust ECS & Special Features(ECM/PCM, PTOX, IFI, etc.) TC OC CAC, ECM

(Use abbreviations per SAE J1930 May91)

| Engine Model<br>(Eng. Code) | Rated HP<br>@ RPM                      | Fuel Rate @ Rated HP mm^3 /stroke (lbs/hr)         | Fuel Pump<br>& Injector<br>P/N  | ECM/PCM<br>P/N  | Part. Trap/<br>Catalyst<br>P/N                |
|-----------------------------|--|--|---|---|---|
| A190C<br>A175C<br>A160C     | 190 @ 2600<br>175 @ 2600<br>160 @ 2600 | 68.9<br>(80.0)<br>62.9<br>(73.0)<br>58.0<br>(67.4) | Injector<br>1816187C2,<br>1816187C3<br>1816187C3<br>1816187C3,<br>1816187C3 | 1807246C1(ECM) 1678129C1(VPM) 1807246C1(ECM) 1678129C1(VPM) 1807246C1(ECM) 1678129C1(VPM) | (Oval-in-shell<br>1823375C1<br>(Oval-in-shell |

Revisions: